

Metadata for LaCreek National Wildlife Refuge, Vegetation Mapping Project Vegetation Coverage

Identification_Information:

Citation:

Citation_Information:

Originator: Remotes Sensing and GIS Group, Denver, Colorado

Publication_Date: Unpublished Material

Title: Lacreek National Wildlife Refuge Vegetation Mapping Project Vegetation Coverage

Geospatial_Data_Presentation_Form: map

Online_Linkage: <http://biology.usgs.gov/npsveg/lacr/index.html#geospatial_veg_info>

Description:

Abstract: This metadata is for the vegetation land-cover and land-use spatial database created at/for Lacreek National Wildlife Refuge, Utah

Purpose: To help meet the management needs of the Refuge.

Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20000727

Currentness_Reference: ground condition

Status:

Progress: Complete

Maintenance_and_Update_Frequency: None planned

Spatial_Domain:

Description_of_Geographic_Extent: LaCreek National Wildlife Refuge and environs

Bounding_Coordinates:

West_Bounding_Coordinate: -101.70993

East_Bounding_Coordinate: -101.51475

North_Bounding_Coordinate: 43.17788

South_Bounding_Coordinate: 43.04319

Keywords:

Theme:

Theme_Keyword_Thesaurus: None

Theme_Keyword: Land Cover

Theme_Keyword: Land Use

Theme_Keyword: Vegetation

Theme_Keyword: Fish and Wildlife Service

Theme_Keyword: National Wildlife Refuge

Place:

Place_Keyword_Thesaurus: None

Place_Keyword: South Dakota

Place_Keyword: Lacreek

Place_Keyword: Little White River

Place_Keyword: Martin

Place_Keyword: Lake Creek

Taxonomy:

Keywords/Taxon:

Taxonomic_Keyword_Thesaurus: none

Taxonomic_Keywords: plant communities

Taxonomic_Classification:

Taxon_Rank_Name: Kingdom

Taxon_Rank_Value: Plantae

Access_Constraints: None

Use_Constraints: Acknowledgment of the USBR/RSGIG would be appreciated in products derived from these data. Any person using the information presented here should fully understand the data collection and compilation process before beginning their analysis/use. The burden of determining fitness for use lies with the user.

Point_of_Contact:

Contact_Information:

LaCreek National Wildlife Refuge Vegetation Mapping Project

Contact_Organization_Primary:

Contact_Organization: Region 6, Fish and Wildlife Service

Contact_Address:

Address_Type: mailing and physical address

Address: Refuges Division, 134 Union Blvd

City: Lakewood

State_or_Province: CO

Postal_Code: 80228

Contact_Voice_Telephone: (303) 236-8145

Browse_Graphic:

Browse_Graphic_File_Name: <http://biology.usgs.gov/npsveg/lacr/images/lacurveg.jpg>

Browse_Graphic_File_Description: 290 Kbyte graphic in map composition layout

Browse_Graphic_File_Type: JPG

Data_Set_Credit: USBR, Denver, CO: Jim Von Loh, Daniel Cogan, Janet Coles, Jack Butler, Doug Crawford, Trudy Meyer, Jean Pennel,

Native_Data_Set_Environment: HP-UNIX ArcInfo

Data_Quality_Information:

Logical_Consistency_Report: All polygon features are checked for topology and existence of attributed label points.

Coverage checked for un-intentional dangling arcs.

Completeness_Report: All data with a minimum mapping unit of 1/2 hectare that can be interpreted from the aerial photographs are entered into the digital database. This includes features defined by the NVCS and the Anderson Level II Land Use classification. Some classes under the MMU are included due to its ease of interpretation and due to speciality of the class. Road and utility corridors and streams/canals wider than 10 meters were digitized as polygons.

Lineage:

Source_Information:

Source_Citation:

Citation_Information:

Originator: USGS

Publication_Date: Unknown

Title: USGS DOQQ

Geospatial_Data_Presentation_Form: remote-sensing image

Other_Citation_Details: DOQQ's used for this project are: Dead Mans Lake, Phantom Lake, Martin, Martin SW.

Refer to the USGS for metadata information on DOQQ's

Source_Scale_Denominator: 12000

Type_of_Source_Media: CD-ROM

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: Unknown

Source_Currentness_Reference: ground condition

Source_Citation_Abbreviation: DOQQ

Source_Contribution: Created orthophoto for the project under contract to the USBR

Source_Information:

Source_Citation:

Citation_Information:

Originator: Horizons, Inc

Publication_Date: 20000727

Title: Horizons Air Photos LNWR

Geospatial_Data_Presentation_Form: remote-sensing image

Publication_Information:

Publication_Place: South Dakota

Publisher: Horizons, Inc

Other_Citation_Details: Aerial photography

Source_Scale_Denominator: 12000

Type_of_Source_Media: filmstrip

Source_Time_Period_of_Content:

Time_Period_Information:

Single_Date/Time:

Calendar_Date: 20000727

Source_Currentness_Reference: publication date

Source_Citation_Abbreviation: Aerial Photography

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Source_Contribution: Flew and produced aerial photography for the project under contract to the USBR

Process_Step:

Process_Description: MAP CLASSES: Vegetation classification was in accordance with the standards developed under the USGS/NPS Vegetation Mapping Program using the National Vegetation Classification Standard. Field work (collecting plot data) aided in the development of the vegetation classes. Also, the Refuge had specific types that they wanted mapped. PHOTO INTERPRETATION: All map classes were interpreted from 1:12,000 scale, color infra-red photography. Photo-interpretation used the standard identification features such as tone, texture, color, pattern, topographic position, and shadow. In addition, field sample locations and their vegetation descriptions aided in assigning map class to each polygon. Photographs were examined using a stereoscope as needed. Linework was created on mylars placed over the photos. GIS PROCEDURES: The linework on the mylar overlays were transferred into the GIS database by one of two methods, either heads-up digitizing or scanning. METHOD I: Heads-up digitizing is a procedure whereby the operator digitizes by hand and eye on a computer terminal screen showing a digital image of an ortho-rectified photo. By looking at similar features on both the aerial photograph from which the classification was made and on the orthophoto, the line drawn on the aerial photo overlay is transferred to the digital image, which is registered to coordinates on the earth. This technique should produce good results except where there is little feature contrast on the orthophoto, in which case the operator must estimate the shape and location of the line work. METHOD II: Photos that cover an area with little topography or are too difficult to accurately transfer via heads-up will be scanned, ie, the mylar overlays will be scanned, not the actual photos. Before the mylar is scanned, it will be marked with control points that correspond to visible points on the orthophoto. The GIS software was used to convert the scanned mylar into a geo-referenced coverage which was then attributed and combined with the larger vegetation coverage associated with the area. The entire transfer and editing sequence was automated via in-house Arc/INFO AML programs. OTHER DATA: Quadrangle and orthophoto border coverages (bndryquad, bndryortho) were created to aid in the creation of the vegetation coverage. The mapping project border coverage (bndryproj) was acquired from the Refuge. A flightline coverage (bndryfln) was made by digitizing arcs with a DRG on screen and following lines as they appeared on the flightline index map. Field Observation, Plot, and Accuracy Assessment data point coverages (data_obs, data_plot, and data_aa) were created by entering points with the 'generate' command using a text file of points and x-y coordinates. Refer to the metadata file for specifics on the data coverages.

Process_Date: 2001

Process_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: Remote Sensing and GIS Group

Contact_Address:

Address_Type: mailing address

Address: USBR, Code D-8260, POB 25007

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: 303-445-2266

Spatial_Data_Organization_Information:

Direct_Spatial_Reference_Method: Vector

Point_and_Vector_Object_Information:

SDTS_Terms_Description:

SDTS_Point_and_Vector_Object_Type: G-polygon

Point_and_Vector_Object_Count: 2061

Spatial_Reference_Information:

Horizontal_Coordinate_System_Definition:

Planar:

Grid_Coordinate_System:

Grid_Coordinate_System_Name: Universal Transverse Mercator

Universal_Transverse_Mercator:

UTM_Zone_Number: 14

Transverse_Mercator:

Scale_Factor_at_Central_Meridian: 0.9996

Longitude_of_Central_Meridian: -99

Latitude_of_Projection_Origin: 0

False_Easting: 500000

False_Northing: 0

Planar_Coordinate_Information:

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Planar_Coordinate_Encoding_Method: Coordinate Pair

Coordinate_Representation:

Abscissa_Resolution: 1

Ordinate_Resolution: 1

Planar_Distance_Units: meters

Geodetic_Model:

Horizontal_Datum_Name: North American Datum of 1983

Ellipsoid_Name: Geodetic Reference System 80

Semi-major_Axis: 6378137

Denominator_of_Flattening_Ratio: 298.257

Entity_and_Attribute_Information:

Detailed_Description:

Entity_Type:

Entity_Type_Label: Vegetation Polygons and Arcs

Entity_Type_Definition: A two-dimensional feature representing an area.

Entity_Type_Definition_Source: ESRI Glossary definitions.

Attribute:

Attribute_Label: ALL_CNAME

Attribute_Definition: NVCS Alliance Common Name

Attribute_Definition_Source: National Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: textual of NVCS common Alliance name

Attribute:

Attribute_Label: ALL_NAME

Attribute_Definition: NVCS Alliance Name

Attribute_Definition_Source: National Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: textual of NVCS common Alliance name

Attribute:

Attribute_Label: AREA

Attribute_Definition: Internal ArcInfo item for surface area (meters)

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: ASSN_C EGL

Attribute_Definition: NVCS Association code - Community Element Global Code

Attribute_Definition_Source: National Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: numerical of Elcode link to NVCS Association

Attribute:

Attribute_Label: ASSN_CNAME

Attribute_Definition: NVCS Association Common Name

Attribute_Definition_Source: National Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: textual of synonym global community name (NVCS Association)

Attribute:

Attribute_Label: ASSN_NAME

Attribute_Definition: NVCS Association Name

Attribute_Definition_Source: National Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: textual of scientific global community name (NVCS Association)

Attribute:

Attribute_Label: CLASS

Attribute_Definition: NVCS Formation Class Name

Attribute_Definition_Source: National Vegetation Classification Standard

Attribute_Domain_Values:

Unrepresentable_Domain: textual of class code & name

Attribute:

Attribute_Label: COMMENT1

Attribute_Definition: Open text field - map unit description

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Attribute_Definition_Source: LaCreek National Wildlife Refuge Map Unit

Attribute_Domain_Values:

Unrepresentable_Domain: textual of general description about the map unit

Attribute:

Attribute_Label: COMMENT2

Attribute_Definition: Open text field - General comment of how the map unit relates to other map units.

Attribute_Definition_Source: LaCreek National Wildlife Refuge Map Unit

Attribute_Domain_Values:

Unrepresentable_Domain: textual of general comment of how the map unit relates to other map units

Attribute:

Attribute_Label: DIGTYPE

Attribute_Definition: Arc (line) attribute - denotes how the arc was entered/created

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Heads-up, on-screen digitizing

Enumerated_Domain_Value_Definition_Source: Sequential unique whole numbers that are automatically generated.

Enumerated_Domain:

Enumerated_Domain_Value: 2

Enumerated_Domain_Value_Definition: Derived from scanned mylar (from interpreted aerial photo)

Enumerated_Domain_Value_Definition_Source: Sequential unique whole numbers that are automatically generated.

Enumerated_Domain:

Enumerated_Domain_Value: 3

Enumerated_Domain_Value_Definition: Project (refuge) order

Enumerated_Domain_Value_Definition_Source: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: ECO

Attribute_Definition: Ecological Description

Attribute_Definition_Source: Ecological Group

Attribute_Domain_Values:

Unrepresentable_Domain: textual groups of vegetation types sharing ecological processes

Attribute:

Attribute_Label: FNODE_

Attribute_Definition: Internal ArcInfo item - for arcs

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: FORMATION

Attribute_Definition: NVCS Formation - name

Attribute_Definition_Source: USNVC Formation

Attribute_Domain_Values:

Unrepresentable_Domain: textual formation name & code

Attribute:

Attribute_Label: FWS_CODE

Attribute_Definition: FWS Use

Attribute_Definition_Source: Fish & Wildlife Service

Attribute_Domain_Values:

Unrepresentable_Domain: numerical groups of vegetation types

Attribute:

Attribute_Label: FWS_NAME

Attribute_Definition: FWS Use

Attribute_Definition_Source: Fish & Wildlife Service

Attribute_Domain_Values:

Unrepresentable_Domain: textual groups of vegetation type codes

Attribute:

Attribute_Label: GROUP

Attribute_Definition: NVCS Formation Group - name

Attribute_Definition_Source: USNVC Formation Group

Attribute_Domain_Values:

Unrepresentable_Domain: textual group name & code

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Attribute:

Attribute_Label: LACREEK_VEG

Attribute_Definition: Internal ArcInfo item - record number

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers

Attribute:

Attribute_Label: LACREEK_VEG_ID

Attribute_Definition: Internal ArcInfo Item - ID number

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: LENGTH

Attribute_Definition: Internal ArcInfo item - for arcs

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Whole numbers

Attribute:

Attribute_Label: LOCATION

Attribute_Definition: Land ownership

Attribute_Definition_Source: South Dakota land ownership parcel ID

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: Refuge

Enumerated_Domain_Value_Definition: LaCreek WR

Enumerated_Domain_Value_Definition_Source: LaCreek National Wildlife Refuge

Enumerated_Domain:

Enumerated_Domain_Value: State

Enumerated_Domain_Value_Definition: State of South akota

Enumerated_Domain_Value_Definition_Source: South Dakota

Attribute:

Attribute_Label: LPOLY_

Attribute_Definition: Internal arcinfo item - for arcs

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: LUC_II

Attribute_Definition: Anderson Land Use Code

Attribute_Definition_Source: USGS Land Use and Land Cover Classification System

Attribute_Domain_Values:

Unrepresentable_Domain: numerical levels, code & name

Attribute:

Attribute_Label: MOD

Attribute_Definition: Vegetation classification modifier

Attribute_Definition_Source: LaCreek NWR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: R

Enumerated_Domain_Value_Definition: Polygon contains and additional Refuge (FWS) classification name

Enumerated_Domain_Value_Definition_Source: textual character of vegetation classification modifiers

Attribute:

Attribute_Label: NVCS_CODE

Attribute_Definition: NVCS Foramtion level code

Attribute_Definition_Source: USNVC Code

Attribute_Domain_Values:

Unrepresentable_Domain: numerical formation level

Attribute:

Attribute_Label: OLDPCODE

Attribute_Definition: Old vegetation classification code (see veg_code)

Attribute_Definition_Source: USNVC Code

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Attribute_Domain_Values:

Unrepresentable_Domain: numerical of old vegetation classification code

Attribute:

Attribute_Label: PDOG

Attribute_Definition: Indicates Prairie dog use

Attribute_Definition_Source: LaCreek NWR

Attribute_Domain_Values:

Enumerated_Domain:

Enumerated_Domain_Value: 0

Enumerated_Domain_Value_Definition: Default - no use

Enumerated_Domain_Value_Definition_Source: LaCreek National Wildlife Refuge

Enumerated_Domain:

Enumerated_Domain_Value: 1

Enumerated_Domain_Value_Definition: Yes

Enumerated_Domain_Value_Definition_Source: LaCreek National Wildlife Refuge

Attribute:

Attribute_Label: PERIMETER

Attribute_Definition: Internal ArcInfo item

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Positive real numbers that are automatically generated.

Attribute:

Attribute_Label: PHOTO

Attribute_Definition: Aerial photo number (flightline-number) from which the polygon was interpreted.

Attribute_Definition_Source: Horizon, Inc

Attribute_Domain_Values:

Unrepresentable_Domain: numerical aerial photo number (whole numbers)

Attribute:

Attribute_Label: PHYS

Attribute_Definition: Physiographic description

Attribute_Definition_Source: USNVC

Attribute_Domain_Values:

Unrepresentable_Domain: textual description of physiologic groups

Attribute:

Attribute_Label: RPOLY_

Attribute_Definition: Internal arcinfo item - for arcs

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: SUBCLASS

Attribute_Definition: NVCS Formation subclass - name

Attribute_Definition_Source: USNVC

Attribute_Domain_Values:

Unrepresentable_Domain: textual subclass code & name

Attribute:

Attribute_Label: SUBGROUP

Attribute_Definition: NVCS Formation subgroup - name

Attribute_Definition_Source: USNVC

Attribute_Domain_Values:

Unrepresentable_Domain: textual group code & name

Attribute:

Attribute_Label: SYNONYM

Attribute_Definition: Other association common name

Attribute_Definition_Source: USNVC

Attribute_Domain_Values:

Unrepresentable_Domain: textual description of association common name

Attribute:

Attribute_Label: TNODE_

Attribute_Definition: Internal arcinfo item - for arcs

Attribute_Definition_Source: ESRI

Attribute_Domain_Values:

LaCreek National Wildlife Refuge Vegetation Mapping Project

Unrepresentable_Domain: Sequential unique whole numbers that are automatically generated.

Attribute:

Attribute_Label: VEG_CNAME

Attribute_Definition: Common name for vegetation classification

Attribute_Definition_Source: LaCreek National Wildlife Refuge

Attribute_Domain_Values:

Unrepresentable_Domain: textual class name

Attribute:

Attribute_Label: VEG_CODE

Attribute_Definition: Vegetation classification code number

Attribute_Definition_Source: LaCreek National Wildlife Refuge

Attribute_Domain_Values:

Unrepresentable_Domain: numerical class code

Attribute:

Attribute_Label: VEG_NAME

Attribute_Definition: Vegetation classification name

Attribute_Definition_Source: LaCreek National Wildlife Refuge

Attribute_Domain_Values:

Unrepresentable_Domain: textual class name

Distribution_Information:

Distributor:

Contact_Information:

Contact_Person_Primary:

Contact_Person: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Organization: U.S. Geological Survey, Center for Biological Informatics

Contact_Address:

Address_Type: mailing and physical address

Address:

U.S. Geological Survey, Center for Biological

Informatics, MS 302, Room 8000, Building 810,

Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: 303-202-4229

Contact_Facsimile_Telephone: 303-202-4219 (org)

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Resource_Description: None at this time

Distribution_Liability:

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Standard_Order_Process:

Digital_Form:

Digital_Transfer_Information:

Format_Name: HTML

Digital_Transfer_Option:

Online_Option:

LaCreek National Wildlife Refuge Vegetation Mapping Project

Computer_Contact_Information:

Network_Address:

Network_Resource_Name: http://biology.usgs.gov/npsveg/lacr/index.html#geospatial_veg_info

Fees: None

Metadata_Reference_Information:

Metadata_Date: 20020215

Metadata_Review_Date: 20060905

Metadata_Contact:

Contact_Information:

Contact_Organization_Primary:

Contact_Organization: USGS-NPS Vegetation Mapping Program Coordinator

Contact_Address:

Address_Type: mailing and physical address

Address:

U.S. Geological Survey, Center for Biological Informatics, MS 302,

Room 8000, Building 810, Denver Federal Center

City: Denver

State_or_Province: Colorado

Postal_Code: 80225

Country: USA

Contact_Voice_Telephone: (303) 202-4220

Contact_Facsimile_Telephone: (303) 202-4219

Contact_Electronic_Mail_Address: gs-b-npsveg@usgs.gov

Metadata_Standard_Name: FGDC-STD-001.1-1999 Content Standard for Digital Geospatial Metadata, 1998 Part 1:
Biological Data Profile, 1999

Metadata_Standard_Version: FGDC-STD-001-1998

Metadata_Extensions:

Online_Linkage: <http://biology.usgs.gov/fgdc.bio/bionwext.txt>

Profile_Name: Biological Data Profile FGDC-STD-001.1-1999